N

ship heading

16

10

12

M 1

M 2

drifting distance

survey line

14

approximately
drifting angle

FIGURE 1

2/6

Data Input

↓

| Calculate raw gradient | — Step 1 |

↓

| Caculate gradient of ship bias | — Step 2 |

↓

| Calculate trend of the gradient of the ship bias | — Step 3 |

↓

| Subtract bias trend from raw gradient | — Step 4 |

↓

| Apply corrected gradient over sample intervals | — Step 5 |

↓

| Integration of gradient into TMI | — Step 6 |

↓

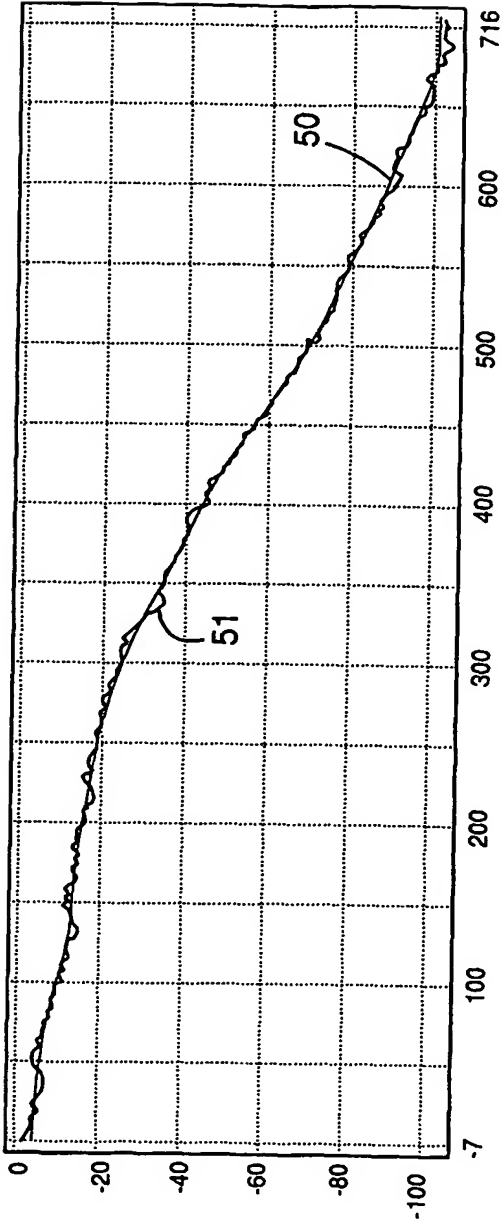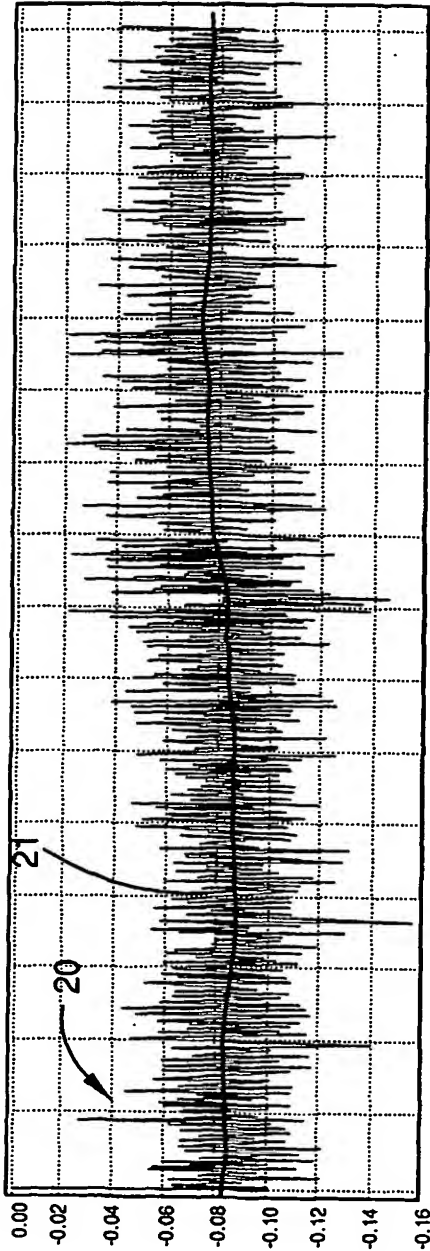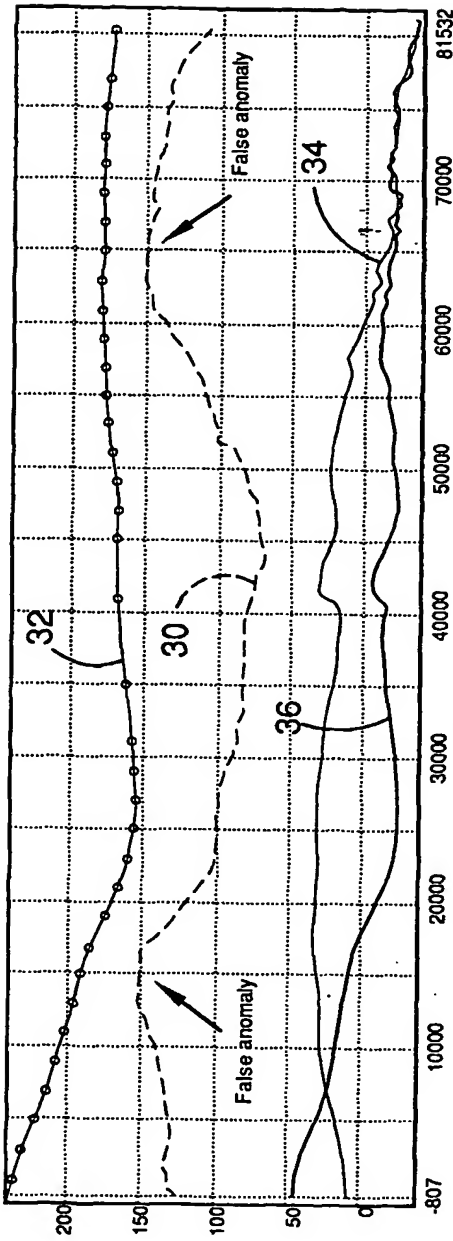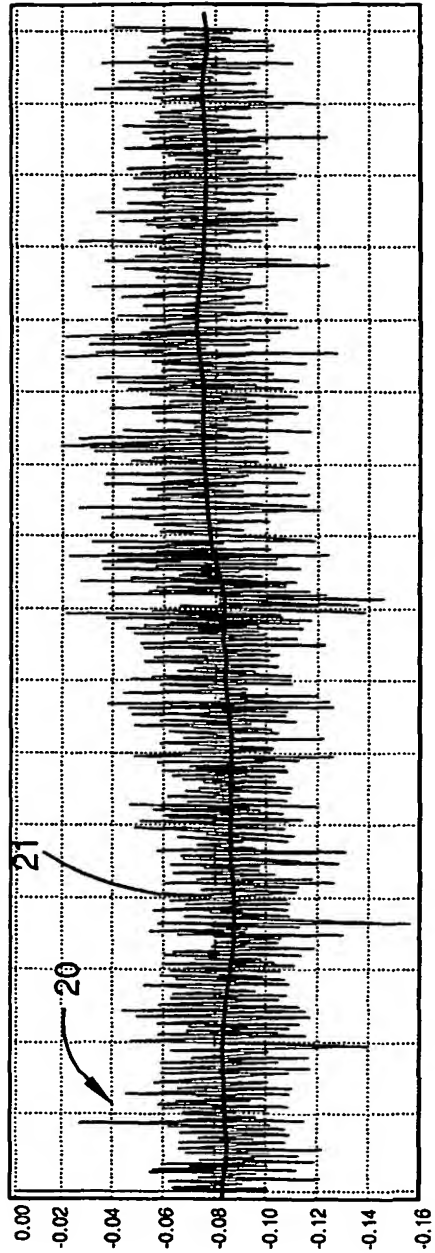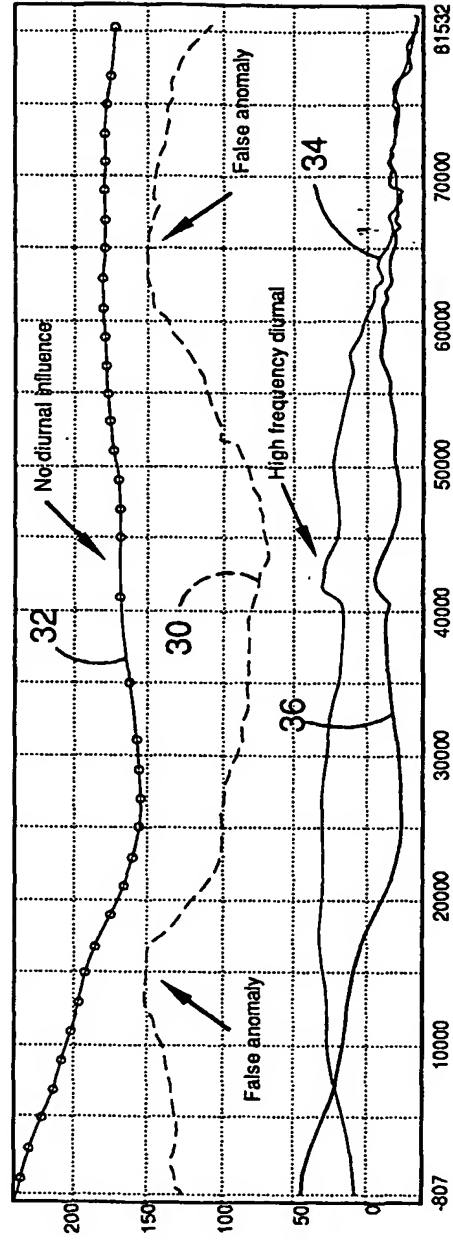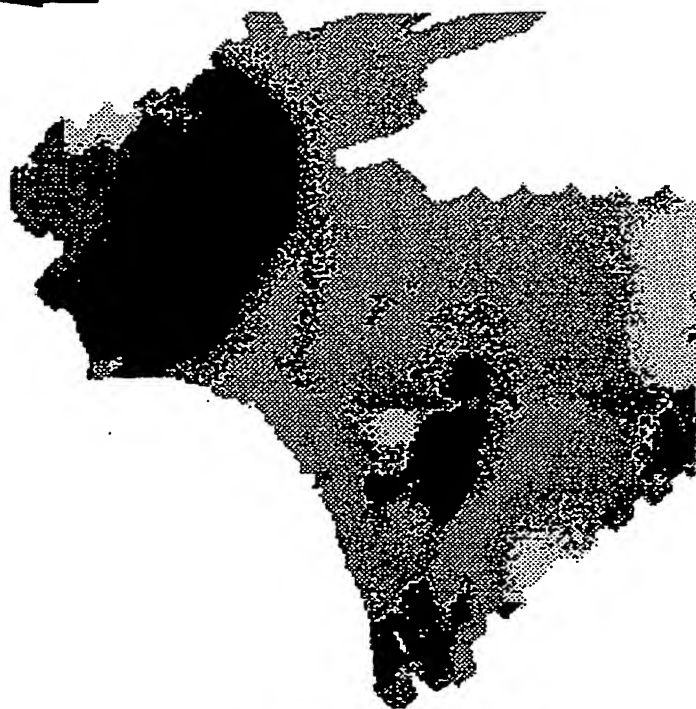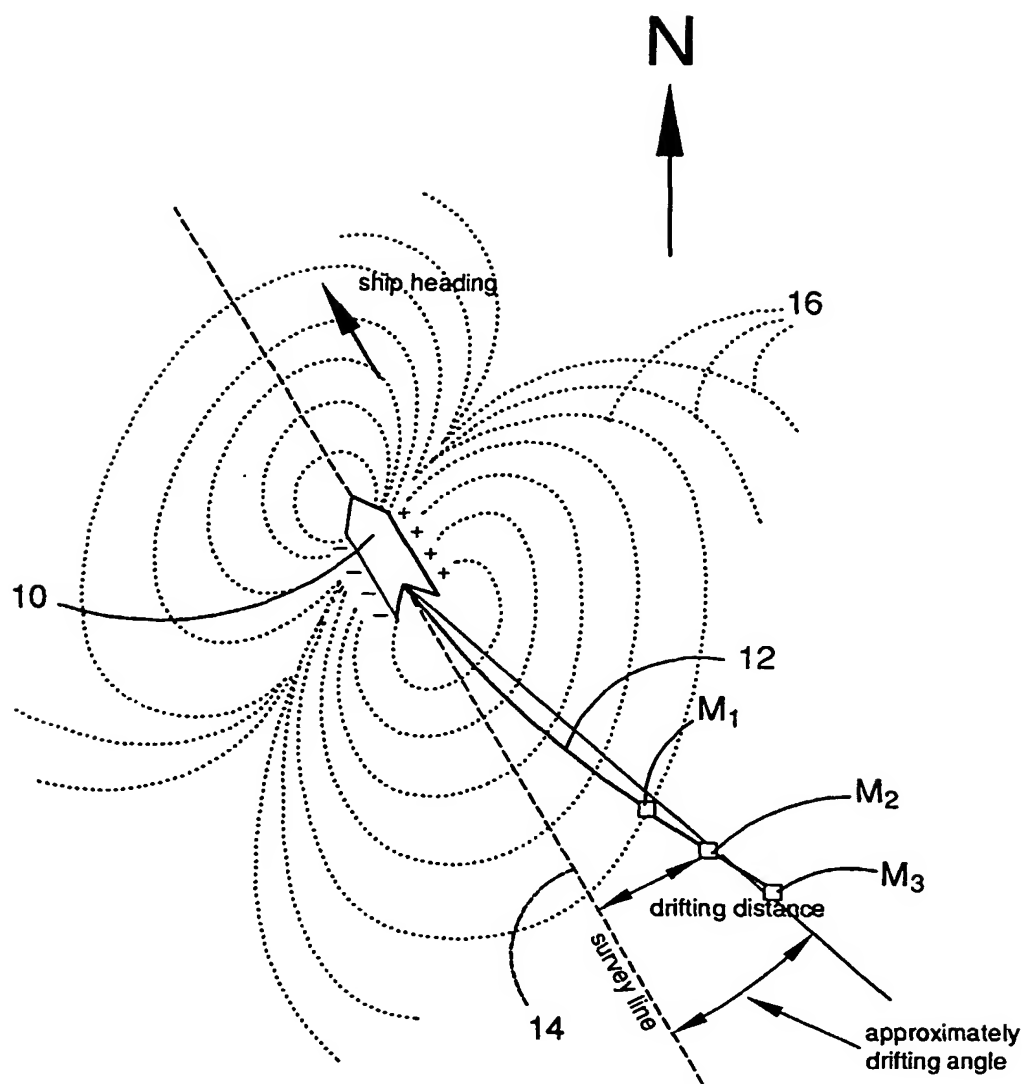| Apply low-pass filter to the integrated TMI | — Step 7 |

↓

Data output

FIGURE 2

FIGURE 2A

FIGURE 3A

FIGURE 3B

FIGURE 3A

FIGURE 3B

FIGURE 5

FIGURE 4

FIGURE 6